UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

P O Box 1450 Alexandria, Virgima 22313-1450 www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

21967 7590 06/27/2008
HUNTON & WILLIAMS LLP
INTELLECTUAL, PROPERTY DEPARTMENT
1900 K STREET, N.W.
SUITE 1200

WASHINGTON, DC 20006-1109

EXAMINER				
ALLISON, ANDRAE S				
ART UNIT PAPER NUMBER				
2624 DATE MAILED: 06/27/2008				

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/735,714	12/16/2003	Venkatesan Shanmugam	60497,000016	3454	
TITLE OF INVENTION: SYSTEM AND METHOD FOR GENERATING PET-CT IMAGES					

APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(8) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	09/29/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT, PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notificat	form should be used I correspondence including d below or directed off tions.	or tran	nsmitting the ISSU Patent, advance or in Block 1, by (a	TE FEE and PUBLIC ders and notification i) specifying a new o					tould be completed where correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
INTELLECTUA 1900 K STREET	7590 06/27 VILLIAMS LLP JL PROPERTY DE F, N.W.		IMENT		I bar	Cert	tificate	of Mailing or Trans	
SUITE 1200 WASHINGTON	, DC 20006-1109								(Depositor's name)
	, 20 20000 1105								(Signature)
					L				(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVENTOR			ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/735,714	12/16/2003			Venkatesan Shanmu	igam			60497.000016	3454
TITLE OF INVENTION									
APPLN, TYPE	SMALL ENTITY	IS	SUE FEE DUE	PUBLICATION FEE I	DUE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO		\$1440	\$300		\$0		\$1740	09/29/2008
EXAM	INER		ART UNIT	CLASS-SUBCLASS	S				
ALLISON, A	ANDRAE S		2624	382-131000					
"Fee Address" indi PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address 2 or more recent) attach ND RESIDENCE DAT. ess an assignee is ident h in 37 CFR 3.II. Comp	nge of "Indicated. Use	Correspondence ation form e of a Customer	(I) the names of or agents OR, alte (2) the name of a registered attorney 2 registered patent listed, no name with PHE PATENT (print of the patent).	up to rnative single y or a t attor ill be or typ the pa	e firm (having as a gent) and the name meys or agents. If a printed. e) tent. If an assigne- assignment.	memb es of u no nan	er a 2 p to e is 3 lentified below, the do	ocument has been filed for
Please check the appropri		catego							up entity Government
4a. The following fee(s) a Issue Fee Publication Fee (N Advance Order - #	o small entity discount j	oermitte		A check is enclosed. Payment by cred The Director is he	sed. lit care ereby	i. Form PTO-2038	is atta	required fee(s), any det	
	s SMALL ENTITY state	ıs. See	37 CFR I.27.					ITTY status. See 37 CF	
interest as shown by the r	d Publication Fee (if req records of the United Sta	uired) v tes Pat	will not be accepted ent and Trademark	Office.	than th	ne applicant; a regi	stered	ittorney or agent; or th	e assignee or other party in
Authorized Signature						Date			
Typed or printed name						Registration N			
This collection of inform an application. Confident submitting the completed this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C itality is governed by 35 I application form to the ons for reducing this bu irginia 22313-1450. DO 13-1450.	FR 1.3 U.S.C. USPT rden, sl D NOT	11. The informatic . 122 and 37 CFR O. Time will vary hould be sent to the SEND FEES OR O	on is required to obtain 1.14. This collection depending upon the e Chief Information C COMPLETED FORM	n or n is est indiv Office 4S TC	etain a benefit by the imated to take 12 m idual case. Any co r, U.S. Patent and D'THIS ADDRESS	ne pub ninute mmen Trader	tic which is to file (and to complete, includin s on the amount of tir nark Office, U.S. Depa D TO: Commissioner I	by the USPTO to process) g gathering, preparing, and ne you require to complete atment of Commerce, P.O. for Patents, P.O. Box 1450,

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



WASHINGTON, DC 20006-1109

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

P O Box 1450 Alexandria, Virgima 22313-1450 www.uspto.gov

DATE MAILED: 06/27/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/735,714	12/16/2003	Venkatesan Shanmugam	60497.000016	3454		
21967	7590 06/27/2008		EXAM	IINER		
HUNTON & W	TLLIAMS LLP		ALLISON,	ANDRAE S		
	L PROPERTY DEPAR	PMENT	ART UNIT	PAPER NUMBER		
1900 K STREET SUITE 1200	, N.W.		2624			
SUITE 1200						

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 723 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 723 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)
10/735,714	SHANMUGAM ET AL.
Examiner	Art Unit
ANDRAE & ALLISON	2624

The MAILING DATE of this communication appears on to All claims being allowable, PROSECUTION ON THE MERTIS IS (OR Reh herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other. NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. of the Office or upon petition by the applicant. See 37 CFR 1.313 and MP.	AAINS) CLOSED in this application. If not included appropriate communication will be mailed in due course. THIS This application is subject to withdrawal from issue at the initia
1. This communication is responsive to Amendment filed on March 3,	2008.
 The allowed claim(s) is/are <u>1-20</u>. 	
3.	ceived. ceived in Application No have been received in this national stage application from the mmunication to file a reply complying with the requirements his application. e the attached EXAMINER'S AMENDMENT or NOTICE OF (s) why the oath or declaration is deficient. mitted. ant Drawing Review (PTO-948) attached ment / Comment or in the Office action of outd be written on the drawings in the front (not the back) of according to 3° CFR 1.121(d).
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948)	5. Notice of Informal Patent Application 6. Interview Summary (PTO-413),
3. ☐ Information Disclosure Statements (PTO/SB/08),	Paper No./Mail Date 7.
Paper No./Mail Date	Examiner's Statement of Reasons for Allowance
of Biological Material	9. Other

Notice of Allowability

Application/Control Number: 10/735,714 Page 2

Art Unit: 2624

DETAILED ACTION

Response to Remarks

 The Office Action has been issued in response to Appeal Brief filed March 03, 2007. Claims 1-20 are pending.

Allowance

- 2. The following is an examiner's statement of reasons for allowance: The prior of records does not teach or suggest simultaneously conducting the following steps: reconstructing at least a portion of a PET image for the current frame, including the step of overlapping a portion of the current frame with an adjacent frame, and acquiring at least a portion of a next frame of PET data. The invention can thus provide the advantage of high quality images showing both the structural and functional features of a patient being imaged while providing increased throughput for enhanced efficiency in operation.
- 3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 4 Claims 1-20 are allowed

Application/Control Number: 10/735,714

Art Unit: 2624

Conclusion

The prior art made part of the record and not relied upon is considered pertinent to applicant's disclosure.

Newport et al (US Patent No.: 6,915,004) is cited to teach a continuous tomography bed motion data processing apparatus and method

Ruchala (US Patent No.: 6,915,005) is cited to teach a method for reconstruction of limited data images using fusion-aligned reprojection and normal-error-aligned reprojection

DeSilets (US Patent No.: 6,961,606) is cited to teach a multimodality medical imaging system and method with separable detector devices

Ruchala et al (US Patent No.: 7,046,831) is cited to teach a system and method for fusion-aligned reprojection of incomplete data

Cable et al (US Patent No.: 7,190,991) is cited to teach a multi-mode internal imaging.

Hamill et al (US Patent No.: 2003/0190065) is cited to teach a fast iterative image reconstruction from linograms.

Inquires

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrae S. Allison whose telephone number is (571) 270-1052. The examiner can normally be reached on Monday-Friday, 8:00 am - 5:00 pm. EST.

Art Unit: 2624

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bhavesh Meta can be reached on (571) 272-7453. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Andrae Allison
June 3, 2008

/Andrew W. Johns/ Primary Examiner, Art Unit 2624